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#3

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : MARANAS, COSTAS D. and MOORE, GREGORY
SERIAL NO : 10/037,572
FILED : November 9, 2001
TITLE : MODELING FRAMEWORK FOR PREDICTING THE NUMBER,
TYPE, AND DISTRIBUTION OF CROSSOVERS IN DIRECTED
EVOLUTION EXPERIMENTS

Grp./A.U. : 1645
Examiner :
Conf. No. : 6518
Docket No. : P05413US4

COMPLETION OF FILING REQUIREMENTS

To the Assistant Commissioner for Patents
Washington, D.C. 20231

ATTN: Application Branch

Dear Sir:

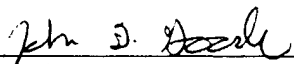
This replies to the Office letter dated April 18, 2002. A copy of the Notice to File
Missing Parts of Application -- Filing Date Granted (Form PTO-1533) is enclosed.

No original declaration was filed, and enclosed is the original declaration for this
application.

Attached is a statement that the "attached" specification is a copy of the specification
and any amendments thereto which were filed in the PTO to obtain the filing date.

CERTIFICATE OF MAILING

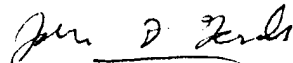
I hereby certify that this document and the documents referred to as enclosed therein are being deposited with
the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner for
Patents, Attn: Application Branch, Washington, D.C. 20231, on this 3rd day of June, 2002.


John D. Goodhue

Also attached is the required fee of \$65.00 for a small entity to cover the late filing of original declaration under 37 CFR 1.16(e).

Please charge any underpayment or credit any over payment to Deposit Account No. 26-0084. A duplicate of this request is attached.

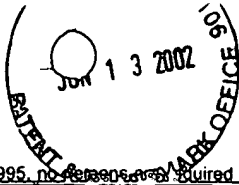
Respectfully submitted,



JOHN D. GOODHUE, Reg. No. 47,603
McKEE, VOORHEES & SEASE
801 Grand Avenue, Suite 3200
Des Moines, Iowa 50309-2721
Phone No. (515) 288-3667
Fax No. (515) 288-1338
CUSTOMER NO: 27407

Attorneys of Record

- bja -

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PTO/SB/17 (11-01)

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL

for FY 2002

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 65.00

Complete if Known

Application Number	10/037,572
Filing Date	November 9, 2001
First Named Inventor	MARANAS, COSTAS D., et al.
Examiner Name	
Group Art Unit	1645
Attorney Docket No.	P05413US4

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number	26-0084
Deposit Account Name	McKee, Voorhees & Sease, P.L.C.

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☐ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$) 0

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims		Extra Claims		Fee from below		Fee Paid	
Independent	Claims						
		-20** =		X		=	
		-3** =		X		=	
Multiple Dependent							

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	65.00
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 65.00

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	JOHN D GOODHUE	Registration No. (Attorney/Agent)	47,603	Telephone	(515) 288-3667
Signature	<i>John D. Goodhue</i>	Date	6-3-2002		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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PATENT
Attorney Docket: P05413US4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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STATEMENT BY ATTORNEY THAT PAPERS ATTACHED TO
DECLARATION ARE A COPY OF THOSE FILED IN PTO TO GET
A FILING DATE

To the Assistant Commissioner for Patents
Washington, D.C. 20231

ATTN: Application Branch

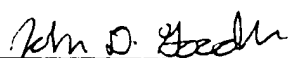
Dear Sir:

I, John D. Goodhue of McKee, Voorhees & Sease, 801 Grand Avenue, Suite 3200, Des Moines, Iowa 50309-2721, Registration No. 47,603, Telephone (515) 288-3667, state that I am the attorney for this application and that I have reviewed the

[1] page(s) of Abstract
[37] pages of Specification

CERTIFICATE OF MAILING (37 C.F.R. § 1.8(a))

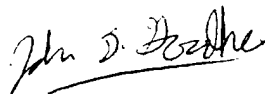
I hereby certify that this document and the documents referred to as enclosed therein are being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on this 3rd day of June, 2002.


John D. Goodhue

[2] pages of claims
[7] sheets of drawings

as shown in my files to be the papers filed in respect to the above identified application and have compared them to the papers attached to the declarations of COSTAS D. MARANAS and GREGORY MOORE which accompanies this statement and I declare that these papers attached to the declaration are a copy of the specification and any amendment thereto which I filed in the PTO in order to obtain a filing date for this application by mailing to the PTO by Express Mail bearing Mailing Label Number EL 011005175 US on November 9, 2001.

Respectfully submitted,



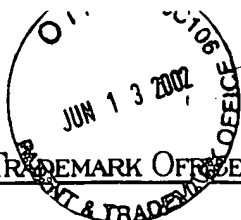
JOHN D. GOODHUE, Reg. No. 47,603
McKEE, VOORHEES & SEASE
801 Grand Avenue, Suite 3200
Des Moines, Iowa 50309-2721
Phone No. (515) 288-3667
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WASHINGTON, D.C. 20231
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/037,572	11/09/2001	Costas D. Maranas	P05413US4

CONFIRMATION NO. 6518

27407

MCKEE, VOORHEES & SEASE, P.L.C.
ATTN: PENNSYLVANIA STATE UNIVERSITY
801 GRAND AVENUE, SUITE 3200
DES MOINES, IA 50309-2721

FORMALITIES LETTER



OC000000007909738

Date Mailed: 04/18/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- o The oath or declaration is unsigned.
- o To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- o **The balance due by applicant is \$ 65.**

A copy of this notice MUST be returned with the reply.

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

06/19/2002 NHOHAMM1 00000074 10037572

01 FC:205

65.00 OP